

Home

UK's biggest home computer publication

Britain's brightest
weekly, packed with
reviews and listings

Computing WEEKLY

No. 57
April 10-16, 1984

40p

FREE
Competition

Win a 747
flight simulator
from
DOCTOR SOFT

Software
reviews for:
Spectrum, BBC,
Dragon, Texas,
Oric, Electron

Foolproof
INPUT routines
for your
Spectrum
programs

Programs to type
in for the
Spectrum, VIC-20,
Commodore 64,
and Texas

AND
Two pages of
your letters,
U.S. scene,
news...

new Spectrum
Arcade action



EDS Micro Systems
10 Watford Close, Totals
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Games tapes at £1.99 each

Pocket money games tapes, at £1.99 each, have been launched for sale in video shops, petrol stations, hi-fi stores, supermarkets and newsagents.

Ray, one big distributor, who supplies software to computer shops, said: "In that market, as in any other, you get what you pay for."

Mastertronic, licensed by ray, with a background in video film distribution, has brought out 14 titles — eight for the Commodore 64, four for the Spectrum and two for the VIC-20. Another seven will appear by the end of the month and then in the case of some three a week. A few will be priced at £2.99.

One of the distributors, Alfa Computers on page 8

Software 'sales dive'

Software sales have dropped sharply in the last three months — and by more than the seasonal dip, says a market research company.

And in a month some software houses are going to go out of business, the company predicts.

Researchers for Consulting Marketing Services questioned 120 software houses, those common operations to those which are part of large organisations.

Paul Standish, of Consulting, said: "Our initial impression is

Continued on page 8

new Spectrum Adventure



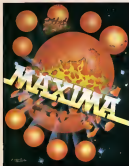
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The game opens with your ship executing an impressive jump through hyper-space to where the action is. First up are the green snappers - easy targets against the starry backdrop. Next comes the blue meenies, a swirling bunch of wriggling invaders. To follow, a crescent of rather beautiful revolving hexagonal barrels who are around the screen raining bombs on you. It's a shame to put these lovely creatures. On you go to a further 13 screens of magnificent graphics.

Devastatingly simple in concept it nevertheless has that indefinable ability to compel you to have just one more attempt to try and see what the 16 screens hold in store.

A must for all Memotech owners.

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competition and you could win
a flight simulator from Hush
Soft.



Three's pages of software
reviews in Home Computing
Weekly — read before you buy

Home Computing WEEKLY

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Take up the challenge from The
Dark in our game for the
Commodore 64



Quality tested programs for all
these computers are in the
week's issue of Home
Computing Weekly.

A NEW, IMPROVED ZX81 KEYBOARD AT THE SAME OLD PRICE. £9.95.



There's only one thing wrong with the ZX81. Its keyboard.

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£1.99 tapes

From front page

Shannon, said: "I have been involved in selecting the games and we are quite happy to stand them against other people's products."

"They are written by established software houses and are very good games. I've tested them on my children and they could not believe the price."

"Their reaction was: 'Great, we can buy more games now'."

"One slogan is 'Quality games at a price everyone can afford'. Software is now a pocket money acquisition. At £1.99 you can buy one a week, use the rewards. I think people will resist them in the same way."

Mastertronic's chairman, Frank Horwood, said: "We are strong in video shops because of our background, but the potential is enormous. There are 80-90 000 outlets across the UK, not as present selling computer software. Among them are 6,000 video houses."

"We are a marketing company. We don't pretend to be anything else."

Sales 'dive'

From front page

that there has been a dramatic fall-off since Christmas. Obviously several factors come into it, but that is more than a seasonal factor."

"One of the reasons could be price. And one of the consequences of demand dropping is that there are going to be severe cash problems and some are going to go out of business."

"They are going to have to come up with better products. They must find out what the customer wants. They can't go on churning out awful games. There is such a glut on the market."

"They have looked at the sales figures and projected them through the year instead of using usual marketing strategy."

The Amiga Trust, of software distributors Websters, said: "I don't share this view. We experienced a drop after Christmas, which is quite normal, but which was very good indeed. I think people can still spend in February and drive in their cars."

Quintel's report, The Home Computer Software Industry, is due to be completed next week and will cost £90.

Quintel Marketing Services, Riverside Buildings, Riverside St, Liverpool L3 5JA

Another director, Terry Midway, said: "Websters predict our products will be less available on shelves due to either pricing or lack of stock being available."

Mr Horwood said four of the first 25 games had already been outsold, but the rest were no nearer. This would be made clear.

Dick Sherry and Nigel Jackson are both from Mr Chip, of Llandudno, which will sell them at the original £5.99.

Doug Midway, owner of Mr Chip, said: "I would have preferred to continue with them myself, but the market has been spinning me. It was a case of knowing which way the market was going."

"The trade has ignored us, I don't know why. We have been hammering on the door to let us in. It goes to the stage where you go full up with hammering on the door."

"Mastertronic have come up with a new idea in marketing and we could not afford to be left out. They saw the products and jumped in. They saw the potential which has been there all along."

He added: "Part of the arrangement was that our name was not supposed to be brought into this. They had no right to tell you."

Two other games, *Quander* and *Somerville*, both for the Spectrum, are also out on sale from Clouston's based R & R.

Marketing director Bob Skerchey said: "They are both good games which have been out for a long time. They are both winners of what can be bought in various different versions."

"Mastertronic are doing for the software market what Amazon did for the record industry. They are putting new life into them at a ridiculously low price. I think the price is too low."

But this is a narrow claim down. They say the same claim and ignore about their way of marketing. I told them I was willing to experiment."

Mr Skerchey said that, if successful, Mastertronic could open new markets, help make piracy problems a still allow new titles to be sold at the usual price.

Neil Johnson, joint managing director of distributors Murdock UK, said: "I don't think they will do it successfully — I don't think the market is sufficiently large to sell enough."

"In that market, as in any other, you only get what you pay for. Old and medium quality products will sell for less than top quality games. They

are trying to supply and improve what we are taught by the current set up. It's a different model and a different product."

Imagae's Bruce Evans said: "I would have thought five of the games were good enough to sell for more than they would sell them for now. There is room at the market place for a wide range of prices. They have approached us but we have not said them anything."

But Evans, of Altrincham, said: "It's crazy. They must be buying the day and I can't imagine people buying these £1.99 cheapies instead of my stuff. You can't sell anything at £1.99 which has taken three months of development."

Software sold in Harrogate, the Kiosk, 275 Booth Street, and other retailers comes from Websters, whose sales and marketing director is Jennifer Trust.

She said: "Whether selling the product I can't comment, but it's very surprising. I would not have thought it would do anything. They have been in touch with us and they are tending to their products."

Imagae has confirmed that it has cancelled its price drop to £1.99. Until its boxed games

appear, Imagae software remains at £3.99. Imagae's Tim Ben and the games are then — although his software companies could match the lower price and distribution would not have suffered — small software houses has complained they they could not afford or not their prices would have been forced out of business.

Mastertronic, 45 George St, London E17

Briefly

Newsport, a personal computer program for the Dragon 32, has just been released by Harris Micro Software at £9.99.

Ward Micro Software, 45 Altrincham Rd, Worsley, Greater Manchester M28 9NP

Five adventure programs from Richard Shepherd Software are now available on disc for the Commodore 64. They are *Transylvania Tower*, *Urbane Utopia*, *Evil's Asylum*, *Ship of the Line* and *Sugar Sky*. Price: £9.50, cassette £5.50.

Richard Shepherd Software, 25-27 Abchurch Ln, City Centre, South, South




"Run more than ten tasks on a ZX81-FORTH ROM?"

Save! More than 10 tasks simultaneously and, in some cases, up to 320 times faster! That's what replacing the basic ROM with the new FORTH ROMs for the ZX81 — and more!

The team behind the breakthrough belong to David Hubbard, and he's building Skywave Software's *Forth-81* with already orders are flooding in and it's a snap to buy why?

The ZX81 FORTH ROMs give you a totally new system in addition to multi-tasking and help screen memory control so you can also edit a program while there are four others are executing, schedule tasks to run from 50 times a second to once a year, and with a further modification switch between FORTH and BASIC whenever you like.

The ZX81 FORTH ROM gives you a normal keyboard/mouse character display and input, a support for the 16, 32k, 64k ROM packs, a fully FORTH compatible and a support to the ZX81 screen on line is almost unbelievable. As a result you'll enjoy a computer with financial support £25-£40! Add 12 pages of 8,000 bytes, 1700 words of text and you'll find your order to the address below.



David Hubbard
75 Cornhill Road, Bournemouth
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International +44 202 823385

Debut for new micro

A new computer, made in the Midlands by a Tameside company, makes its public debut tomorrow.

Details are being kept secret but, as reported in Home Computing Weekly, it will have a type-written-style keyboard with colour keys, 64K of RAM, a single 5.25-inch floppy disc drive, colour, 40 columns screen — with an option for 80 columns — and a Microsoft-like BASIC.

Using a Z80A processor, it will have both RS232 and Centronics type interfaces.

Taring, the largest company in Tameside, said it will be in the upper price range, designed to

appeal to home users wanting to move up to a more powerful computer, to the educational market and to businesses.

It is used to offer an opening centre similar to CP/M, the industry standard for business users.

Taring brought Decra's consumer desktop device in 1981 and its Hygrother plot is used to make 10 per cent of UK TVs.

Taring (PRL), Mapaseal St, development, Brierley

Briefly

A new screen calculator for the Spectrum can give 32 lines of 64 characters on screen, says Timesdata, which has just brought out HI-T.

The other features include

- Form fill-in: inputs can be in any position on the screen without disturbing other data on screen.
- Windows printing and scrolling can be configured to any rectangular area on the screen.
- Offset printing to move any characters up by one or five

marks for superscript, subscripts and so on.

- A definable print control spacing for tabulations.

Timesdata says the 133 symbols in the program's character set include upper and lower case letters as well as block graphics and I Ching, just as in the Spectrum's standard character set.

80-T and standard characters can be printed on the same screen. The Spectrum's usual screen format of 34 lines at 12 characters HI-T costs £5.95.

Timesdata, 55 Abchurch Lane, London, EC4N 3ED

Players of Beaky and the Egg Soldiers. Fantasy's 48K Spectrum game, have to be told, match wit and wit to many like Beaky as possible through 12 different screens. The game is due out in the end of the month with a Commodore 64 version (aim). Both cost £6.50. Fantasy's first Commodore 64 game, The Pyramid, was a faster loading system — called Supercharge by the company — because the standard loading time was nearly 30 minutes.

Fantasy, Pinchbeck Lodge, 27A St George Rd, Chesham, Bucks HP8 3DT

BBC speaks to you

Cherish has brought out a new model of its Sweet Talker for just £99.95.

Costing £24.95, a plug-in speech reader PC99 adds the computer, reading out records or cassettes of tracks.

Like the Spectrum version, the new model is based on the telephone system which means any word, sentence or phrase can be written into software.

Sweet Talker for the BBC includes a demonstration cassette.

Cherish's Spectrum model, costing £29.95, is now compatible with the Mega-drive, using I/O port address 31. The company also produces a plug-in RMI pack to operate any Spectrum from 19K to 48K. Cherish, 24 Bar St, London EC2A 4AT

Our new charts

Two new charts make this first appearance in this week's issue of Home Computing Weekly. We are adding a top 10 for new-arrival programs — for fans of adventure and strategy games.

Acornsoft says its new Avator graphics is the first Sprite Right analogue, chosen because it is more interesting to fly than a modern day passenger aircraft. Managing director David Johnson-Servino, launching the program at the RAF Museum, London, said the program was also introduced because over time months by Geoffrey Chaucer, Avator runs on the BBC, was licensed on joystick and cost £14.95 on cassette and £17.95 on disc. Avatorsoft, 44 Market St, Cambridge CB2 3AT

Salto Software is offering a demonstration version of its program for £5, extended if an order is placed. A demonstration disc is £1.50. They continue with a list of relevant retail games available for the Commodore 64, 48K Spectrum and BBC model 6. Salto, 4 Church St, Abber Grove, Bath BA1 1NL

Karna has brought out a colour graphics program for the Commodore 64. Called Paintage, it costs £19.95 and includes pen, brush and text modes, the ability to draw curved and straight line shapes and several other commands. Karna, 17 Waterloo Rd, Pangbourne, Berks RG8 2JF

Up to eight chips can be plugged into a new external RS232C box — and with a clear keypad top — and selected by switch. Microspoke II for the BBC computer and comes with a cable and socket connector for £37.44.

Northern Computers, Churchfield Rd, Frodsham, Cheshire

A Pascal compiler for the Commodore 64 have been launched on disc and cassette by Oxford Computer Systems, which says they are complete implementations with added graphics and sound extensions. The cassette is £14.95 and disc £49.95.

OCS, Hemmington Rd, Walsby, Oxford OX7 1JF

Acornsoft, now for the BBC micro from Cylindrical Software, is said to provide segments of any word of up to 30 keyboard characters — eight with the BBC model — and then print them in alphabetical order, numbered and starting from page 100.

Cylindrical Software, 31/77 Collier Rd, Atterley, Buntingford ST17 9JF

You could be on our pages

We welcome programs, articles and tips from our readers

PROGRAMS must always be sent on cassette. Listings are helpful, but not necessary, check carefully that they are bug-free, include details of what your program does, how it works, variables you have used and hints on conversion.

ARTICLES on using home computers should be no longer than 3,000 words. Don't worry about your writing ability — just try to keep to the style in HCV. Articles must likely to be published will help our readers make better use of their minds by giving useful ideas, possibly with programming examples. We will convert any sketched illustrations into finished artwork.

TIPS are short articles, and brief programming routines which we can put together with others. Your hints can aid other computer users.

Competitive rates are paid.

Keep a copy of your submissions and include an SAE if you want them returned. Label everything clearly and give a daytime and home phone number if you can.

Paul Lightfoot, Home Computing Weekly, No. 1 Golden Square, London W1R 3AA

The Muncher Dave meet... a fruit machine

Muncher by Joe Sayon

You are a spider trying to avoid the Muncher, a creature whose favourite meal is... spiders.

How it works

4-5 set up screen
10-20 set up variables
20-30 insert credits, insert you
and Muncher, lay eggs and
check for hits and going off
screen
40-50 points have well you did
and high score
60-80 conversation
90-100 Muncher eats you
advantage

It also lays eggs and it poisons
out a ladder and eats you.
You face the same fate if the
Muncher catches up with you.

When this happens your time
and score is shown.

Remember, the Muncher is
faster when travelling
downwards.

You have the advantage that
you can leave the edge of the
screen and come in on the other
side and the Muncher can't do
this.

Main variables

Q: 4096 memory map
T: timer
A: 8 your cologne, you
J: 5 Muncher's cologne, now
120 clock
R: your name
B: best time

How to convert

The stock difficulty will be
using for computers without
clocks. The POCKET and
screen could be done with
PROM AT or TAD commands.
Here are the stock locations:

1000-1005 score memory map
1006-1007 upgrade speaker
1008T white timer
1009T volume control
1010-1015M check what key is
pressed
1016-1017 A + 127B: checks
what you see
1018-1019 colour memory
map

Mean Dave by Stephen Ballmore

How it works

1-10 set up cologne, display title
20-25 set up variables
26-30 set up game graphics,
colour and point using the
901-905 movement of character
and ball, check for hit,
POKE! point of ladder
1000-1005 before, play
Pascal March
1006-1011 jump location
1008-1009 ball down take
1010-1015 score memory, point
score up, move
1016-1017 if score is greater than
high score print score, wait
for space bar press for
another go
1018-1019 DATA for Pascal
March

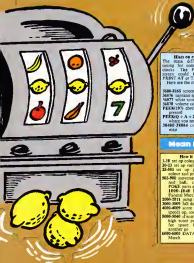
Can you go to the top of the
pyramid without falling down a
hole or being hit by the ball?
Dave is laughing at you!

These are the keys to use:

L: left
arrow:right
Q: jump

When you reach the bottom
of the ladder you will be
automatically transported up to
the next row. If, however, you
fall down a hole or get hit by a
ball the word DEAD appears
above you and the Pascal
March is played.

Should you reach the top of



Box 11. HOME COMPUTING: WHAT'S IN A NAME?

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GNASHER

For 1 or 2 players

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... £4.95

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For 1 or 2 players

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FROM THE DIRECTOR



1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

[illegible]

EDUARDO T. BORGES, JR.
THEODORE J. BORGES
JOHN W. BORGES, JR.

¹These results are based on the assumption that the probability of a firm's survival is independent of the firm's size. This assumption is not always valid, but it is a reasonable approximation for the purpose of this study.

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CENTIFUGO
4000 RPM

Illustration showing a centrifuge rotor with a sample tube. The rotor is labeled "CENTIFUGO" and "4000 RPM". The sample tube is labeled "SAMPLE TUBE". The rotor is shown in a cross-section view, with the sample tube inserted into the center. The rotor is labeled "CENTIFUGO" and "4000 RPM". The sample tube is labeled "SAMPLE TUBE".

Illustration showing a centrifuge rotor with a sample tube. The rotor is labeled "CENTIFUGO" and "4000 RPM". The sample tube is labeled "SAMPLE TUBE". The rotor is shown in a cross-section view, with the sample tube inserted into the center. The rotor is labeled "CENTIFUGO" and "4000 RPM". The sample tube is labeled "SAMPLE TUBE".

[illegible]

1. **Identify the problem.** The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.

CONTRACT FOR SPECTRUM
NO. ONE ONE ONE

Advertisement: The advertisement for the book "The Art of War" by Sun Tzu, published by Bantam Books, is located in the bottom right corner of the page. It features the title "The Art of War" in a large, bold, serif font, followed by the author's name "Sun Tzu" in a smaller font. Below the title and author's name, there is a short paragraph of text in a small, sans-serif font, which appears to be a description or a quote about the book. The text is right-aligned.

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

QUESTIONS 1. Which companies have been
1. **QUESTIONS** 1. Which companies have been
1. **QUESTIONS** 1. Which companies have been

THE UNIVERSITY OF CHICAGO
POSTAL SERVICE

1. **Introduction**

1. 200,000 BBL per day
2. 100,000 BBL per day

[illegible]

CONTRACTS

PLATE 100: (continued)
 The following are being described:
 1. The first is a small, dark, round object.
 2. The second is a small, dark, round object.
 3. The third is a small, dark, round object.
 4. The fourth is a small, dark, round object.
 5. The fifth is a small, dark, round object.
 6. The sixth is a small, dark, round object.
 7. The seventh is a small, dark, round object.
 8. The eighth is a small, dark, round object.
 9. The ninth is a small, dark, round object.
 10. The tenth is a small, dark, round object.

For more information, contact the publisher at 1-800-393-6645 or visit our website at www.mhhe.com.

STREET SCENES *These photos were taken by a student at the University of California, Berkeley, in 1967.*

Abstract *Background:* The purpose of this study was to determine the prevalence of self-reported depression and anxiety among a sample of young adults in the United States. *Methods:* Data were obtained from the 2004 National Survey of Adolescent Health, a nationally representative survey of 10,000 young adults. *Results:* The prevalence of self-reported depression was 10.1% and the prevalence of self-reported anxiety was 11.2%. *Conclusions:* The prevalence of self-reported depression and anxiety among young adults in the United States is high. *Keywords:* Depression, Anxiety, Prevalence, Young Adults.

1. **Identify the problem.** The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.

[illegible]

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The Editors

1. The first step is to identify the problem. In this case, the problem is that the user is unable to access the internet.

"There were no alternatives," says Spence of the situation. "The company's entire business was on the ground, and the situation was such that we had to shut down completely. It was a very difficult decision, but it was the only way to survive."

[illegible][illegible]

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CREATIVITY AND GAINING IN SOFTWARE
for 2000, SPECTRUM, AND 10 COMMODORE 64
STARS

[illegible][illegible]

Commodore problems 1

I must wholeheartedly agree with the letter from Stanley Magraw. (CC members made up 50% to 60% of the 1984 vote. So in I have had 100% vote and have been voting over a month for a replacement. I purchased the 4th from Bessieburrows and they have not been able to supply me with a replacement.

On talking to the manager he informed me that I am a member of your long list and that I was lucky to be only waiting for my third or I am also on my second Discharge order. My firm refused to let me record it. I am looking for more (e.g. Kodak, Wm. and Wm.) The camera was not. I was in trouble to the end.

The only conclusion I can draw is that Communism won't let us get past slavery, the past and tomorrow and, as the John Wayne film remarks only pondered this or he has he tried toward us the end

Paul Edwards, Chicago, Illinois

Commodore problems 3

Having read the letter from Sheila Maguire (PAC '85) and the response from Commodore, I decided to feel so write I have experienced things like this, happened to me during 1983 when in fact had even more I was not completely satisfied.

I thought the computer through and did not need to show thought BASIC part 1. This was really useful and was correct.

The board, seated with the aid of a young Miss Emily in the field of vision, is shown agreeing, real help in the construction process.

The capabilities of the tool are great. If only I could find out how to use them to do a great many things, it would be no wonder that he may predict the discovery.

I am sure Commissioners will give their usual blood-curdling why, oh why don't they employ someone who is really interested in consumer education?

Someone, not thanks to Commission 1 will be able to suffer the full potential of us, I'd think that I will just hope that concerned to Commission will wake up and take notice of the above subject I send as needed information.

Dr. J. K. Kulkarni, Director, K. J. Somaiya Institute of Management Studies and Research, Vile Parle (E), Mumbai-400 057.

Send your letter to Letters, Home Computing Weekly, No.1 Golden Square, London W1R 3AB. Don't forget to name your computer — the best letter could win £5-worth of software. Got a problem with your micro? We'll soon be starting a queries page, so send your technical questions to Queries at the above address.

Commodore problems 1

On the letters page at H&W 151 read a reply from John Brown, the former manager of Commonwealth U.K., that of Sheila Maguire had pointed out that County Commissioners did direct to Commissioners the problem could have been resolved much more quickly. I returned to Commissioners and met several members during the Commission so it would not be too late. I am happy to say the programme is now in the air.

I passed it on February 3 and Cummings placed it on February 4. I placed them on March 1 only, to be sold then, as I would not be allowed to do another work. I placed again in March 11 only to be sold the same thing again. If this is not the same matter, "Cummings" then did wonder what Maguire thought on this, as the Cummings did work perfectly apart from the incorrect fact I am now placed with it, but as for Cummings, I am very sorry to hear it was not correct. I am agreed to keep up the good work.

R. Warden, Chatham, N.H.

Commodore problems 4

I would be very grateful if you could help me with a problem regarding the Commission's job.

In approximately five weeks I have had my first class night Commodore. This is not a joke and I think it would surprise anybody I have written to Commodore - but they have replied. Unlike the person in PCW (I have had no idea of the change right now, and I don't think I will) I know how to operate a computer. This is not a reflection on that person, but on Commodore themselves. Here is a response to the students:

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Journal of Internal Medicine 247: 111–117

park are very, very hot and flat. Computer monitor features left in and down, but still no back. Travel agent in the shop the

① Integration ② differentiation
 ③ integration ④ differentiation

Disagreement is usually not
relieved unless I find a
change in timing and over-
sight that is better.

[illegible][illegible]

Computer I handles books
Computer II finds your books.

Item # Replaced Total
Computer now works like
the former only loads when
it starts like a

I support the committee's recommendation to move to the 10th floor, as the 10th floor, the 11th floor and the 12th floor are the most secure of the available

I don't want to waste much longer because I am paying money on your thing that doesn't work. I have paid about £100 up to now, and I still pay £70 p/w whatever that means (they don't say).

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Commodore model 1

I feel I must raise my voice, even in defense of the Committee. It has not brought this money in, and I as mayor, lady of the house stand with it as it is in an emergency will allow.

It is a good rule to work it round either before or after, when any day comes in Japan's BASIC to attend my school.

Totally spoiled here, let's school in the art of 15, the low-oh, different machine, it's winning me and everything my darling from I want them and go to the 15th is to strictly where, we and even find in you me me when I typed in your Speed-Webster, America.

While I'm sorry Mr. Wang had bad experiences, I must say that Comstock has a very satisfied user in me. My son, on the other hand, managed to get another movie because he'd had failed

I'm always prepared for exams to take and over extended time I received a full table in long time, it is all too close for me, but oh for my Year Committee, Sherry Jones, Sherry Jones



Commodore praise 2

Having read letters in your magazine from people who have had trouble accessing, with great order or in writing, to Commodore, and further annoyed by the *Shells Magazine* (March 1984), I decided to bring you some good news.

Due to two unfortunate accidents I broke two keys off of my VIC 20. I wrote to Commodore on March 12 asking them if they could supply me with replace parts for these two keys. I didn't expect them to be willing to supply me and was expecting to have to wait for a couple of months for a letter suggesting I take my VIC to my local dealer.

However, on March 18 I received a pre-form letter from Commodore stating that they would mail a couple of the broken keys and that the new keys would cost £1.00.

My lack of computer knowledge has been covered long ago in this great work, *Commodore*.

Henry Maguire (number given) VIC 20 owner, New Market-on-Warrenton, Co. Clare, Ireland

Commodore are proud to acknowledge your letter will appear on the front page of a future issue.

Cable query

Congratulations on a good computer magazine that is popular, reader friendly. The correspondence for the Commodore has been exceptional to say the least. I think they are not giving the Commodore readers the plain to call computer magazines that are there to do it.

I got me at a Christmas and really find a day when I'm not talking on a working set. Various programs like the *Shells Magazine* (March 1984), on the machine aren't all that easy. I've found it quite easy to achieve all the effects I want in extremely small programs.

Life can easily be put perfectly against the machine. The video card that connects the computer to my TV is fairly in the end and when the video the computer has a loose connection — the picture comes back and the video is then changed to normal. I've found it quite easy to achieve all the effects I want in extremely small programs.

Life can easily be put perfectly against the machine. The video card that connects the computer to my TV is fairly in the end and when the video the computer has a loose connection — the picture comes back and the video is then changed to normal. I've found it quite easy to achieve all the effects I want in extremely small programs.

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Not wanting to risk the whole unit being stolen I thought I would get a new one. I wanted the obvious "top model" — that was the reason I bought it. I was sure it was the best of its kind.

Further enquiries have failed to get me a VIC 20 to ask if your readers know of anywhere where I might find a new video cable for my 40.

Andy Clark, Bude, Cornwall, near Aylesbury, Bucks

Can any readers help Andy Clark?

Checkout staff plan jail break

My friend Sandra came up to me at work and said "well, it's about 11.30 and I'm going to hospital but there must be an idiot who's got the keys to the car. I've got to go to the hospital but there must be an idiot who's got the keys to the car. I've got to go to the hospital but there must be an idiot who's got the keys to the car."

It was just as I was about to go to the hospital that I saw a man in a white coat running towards me. He was holding a bag and looking very nervous. I asked him what was wrong and he said "I've got to go to the hospital but there must be an idiot who's got the keys to the car."

Well, Richard Shepherd plans to go to the hospital but there must be an idiot who's got the keys to the car.

My friend Sandra came up to me at work and said "well, it's about 11.30 and I'm going to hospital but there must be an idiot who's got the keys to the car."

Richard Shepherd said "I don't want to go to the hospital but there must be an idiot who's got the keys to the car."

For other Urban Library support in the UK, see the Urban Library website at www.urbanlibrary.org

to Richard Shepherd. See page 10 of the March 1984 issue of the magazine. See page 10 of the magazine.

Imagine: it's up to you

Imagine Software made a double impact in the pages of *PCW* 24. First, it was reported that the price of its software will now be around £10 and secondly, in the letter that the directors wrote to you, headed *Imagine* then we saw the story.

I find it difficult to remember the two financially high prices will now be around £10. It must be true in some way the company of more of games software are people with no money, it's a challenge. High prices will therefore mean the demand for games.

Imagine Software is not the production of people by playing with the media in the marketing about it. The media can only make a company, however small.

Imagine Software is not the production of people by playing with the media in the marketing about it. The media can only make a company, however small.

Chris Jenkins, London E2

Imagine and whiz kids

I find it really most curious that the first from *Imagine* and *Whiz Kids* is gone on and on, winning awards and everyone who I don't think for a while it's a shame.

I don't think about too long ago when we first appeared in the media selling our first book. It was a real success. I don't think about too long ago when we first appeared in the media selling our first book. It was a real success.

Imagine Software is not the production of people by playing with the media in the marketing about it. The media can only make a company, however small.

Imagine Software is not the production of people by playing with the media in the marketing about it. The media can only make a company, however small.

Imagine Software is not the production of people by playing with the media in the marketing about it. The media can only make a company, however small.

BEYOND

CHALLENGING SOFTWARE

It is their human, far more than mere string of
the Pytron controls the more Ende Simulation. When it
which comes, it will cope with the human demands which would leave
in human form enhanced, computer needs a world.
Damage is primary, while the base must be opened and studied on
the basis of the simulation, calculated immediately.
Human lives will be expended as necessary but the Pytron over
goes down.

The Sinclair Spectrum has always attracted the best
programmers. It's always had the most innovative software.
Puzzle Scabbles, The Hobbit, Jet Pac and now

PSYTRON

Ten screens of stunning
graphics, animation
which makes other
programmers gasp, a 20
page booklet of hints, tips
and help with the
discovery of each of six
levels of play.

How long can you survive
the Final Conflict? A great Pytron would last
an hour and a Sinclair 8L goes to the final
portion to watch that last.

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These screens are just a sample to show the style of the program

But that's not all, not by a long way. This program automatically raises a corresponding debit or credit for every entry, and will even open a new account if an entry features an unrecorded account name.

Information can be manipulated in various ways — you can call up your bank or credit card account, or analyse expenditure according to a variety of categories which you assign to the transactions. Instant Account balances can be listed at any time. A great time saving feature of this program is that account names and transaction descriptions need only be recorded once, as all the input fields will sort existing files. There are many more features which make this the most powerful finance package around, we even include a test file for you to experiment with before getting started.



★ ★ ★ ADDRESS MANAGER ★ ★ ★

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| 3. BBC Acid | Ultimate | Spectrum |
| 4. Falcon Patrol | Wright | Spectrum |
| 5. Chameleon (Map) | Shirley | Spectrum |
| 6. Paperboy Pilot | Optical Information | Spectrum |
| 7. 3D Death Chase | Wally Webb | Spectrum |
| 8. Pitfall | Imagines | Spectrum |
| 9. Pac-Man (Pete) | Amsoft | Spectrum |
| 10. Knight GTS | Redmond & Computer | Wally Webb |

NON-ARCADE

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|-------------------------------|------------------|------------|
| 1. Turbo King (Soft Bullseye) | Bug Byte | Spectrum |
| 2. Hoolah | M House | Spectrum |
| 3. Twin King (Soft Bullseye) | Bug Byte | Com 64 |
| 4. Transylvanian 101 (Soft) | Richard Brindley | Spectrum |
| 5. Hoolah | M House | Com 64 |
| 6. Hoolah 101 (2) | CCI | Spectrum |
| 7. Snooder | Vision | Wally Webb |
| 8. Journey (Amsoft) | ASP | Spectrum |
| 9. Commander's Path | CCI | Spectrum |
| 10. Holy Grail | Redmond | Spectrum |

Compiled with the assistance of Britain's leading software distributors, including: Pinnacles, SDL, FCI, Websters, FCS and Software Centre.

SPECTRUM

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|---------------------|-----------------------|
| 1. Apple (Am) | Ultimate (2) |
| 2. Laser Attack | Information (2) |
| 3. Apple Attack | Supermarket |
| 4. Chameleon (Pete) | Pete (2) |
| 5. Jet Set Willy | Jet Set Willy (2) |
| 6. Turbo King | Software Projects (2) |
| 7. Paperboy Pilot | Optical (2) |
| 8. Chameleon (2) | Optical (2) |
| 9. Jet Set Willy | Optical (2) |
| 10. Knight GTS | Optical (2) |

COM/MODEM 64

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| 1. Hoolah | Soft Bullseye |
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DRAGON 32

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Compiled by W. A. Smith and Websters. Figures in brackets are last week's positions.

VIC-20

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HOME COMPUTING
WEEKLY
BRITAIN'S
BRIGHTEST

Z8001

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Tasmanian Devil by David Allen

However, you must keep out of the way of the Tasmanian Devil, a nasty little creature with sharp teeth who, far from being interested in traffic, just loves the odd Rumpsteak for supper. And if he lands on you, you're on the menu!

1-20 preliminary and systems
2000
10-17 deadline
25-99 course definition
2000 target no movement left
10-19 temporary movement right
12-20 temporary movement up
2000 direct movement
2000 zero for don't co-ordinate
with meeting
2000 temporary's Federal Market
movement of their market
2000 corrections and T's into
Kings in the House, April
realize
2000 score evaluation and
Washing Machine theme (I
score in maximum possible
in 2000)
2000 criteria and programs made
new defined another

If you pack up a suitcase then that means folks at home back to the bar at the top left hand corner of the screen. But, because, the camera will see

8. **mean**
 1-10: high mean
 2, 5: Gangneung Olympic's development
 G & I recognized variables to control crowd's speed
 100 (2-3) away for mean

If you manage to survive and get all the stuffs and coins, then you score 368 and are treated to a few bars of Wagner's *March*. If you are eaten by the *Feudal March* pigs and your score up to that moment is displayed and evaluated.

GRAPHIC A (CHRS 140) 1mm
green, dorsal left
GRAPHIC B (CHRS 140) 1mm
green, dorsal up on dorsal
GRAPHIC C (CHRS 140) 1mm
green, dorsal right
GRAPHIC D (CHRS 140) 1mm
green, dorsal right

Click on symbols:
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SPECTRUM PROGRAMS

```

50 :INKEY$="7" AND Y=0:
51 IF $1$+30<0 THEN GO TO 17
52 GO TO 10
53 IF $=0 THEN GO OUT DUE TO 10
54 IF $=0 THEN PRINT FLASH 1
55 :UNLESS YOU LOSE ALL YOUR
56 :LIVES, UNLESS YOU WANT TO PLAY AGAIN
57 :
58 : PRIME 3, PRIME 3, MIN
59 :FOR $=10 TO 3 STEP -1: REPR
60 :1, $: NEXT $ LET $=1: PRINT
61 :AT $, $: GO TO 10
62 :FOR $=10 TO 3 STEP -1, $
63 :NEXT $ FOR $=1 TO 10: REPR 1,
64 :$+30: NEXT $ LET $=1: REPR 1,
65 :$+30:1: PRINT AT $, $: CR$=1
66 :1, INK 3, SCORES : AT $, 1, $: 1
67 :IN $, $: AT Y, $: AT $, 10: 1
68 :END SAVED $: PRINT AT $, $:
69
70 PRINT AT 1, 0, INK 4, BRIGH
71 : AT 1, 1000000: GO TO 1
72
73 CLR : PRINT AT 10, 0, INK 3,
74 : FLASH 1, "CONGRATULATIONS YOU HA
75 :VE ENTERED THE HIGH SCORE WHICH W
76 :AS $: PR: YOUR SCORE WAS $:
77 LET $=5: PRINT INK 4, "TYPE YOUR
78 :NAME PLEASE
79 GO TO 10000
80 FOR $=1 TO 10:
81 INK $: BR$=10: PRINT AT $, $
82
83 LET $=10:
84 LET $=10:
85 LET $=10:
86 LET $=10:
87 LET $=10:
88
89 GO TO 70
90 FOR $=1 TO 5: PRINT AT $+
91 : $, 100000 TO 930: NEXT $: REPR 1,
92 : $: CR$=1
93 IF INKEY$="7" THEN GO TO 71
94
95 RETURN
96
97 LET $=0:
98 LET $=0:
99 LET $=0:
100 LET $=0:
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CAN KILL YOU.....USE THE CURSOR
KEYS TO MOVE IN THE DIRECTION
S INDICATED"
7101 LET US=US+
PRESS A KEY
PRESS A KEY
PRESS A KEY"
TIME LET US=US+
ADD LUCK
7140 FOR U=1 TO LER US PRINT IN
LET AT 15.5 LER U TO U+3 IF US
U+3 THEN GO TO 7145
7141 GOSUB .85,DOCS US,U+1.55
7142 IF US=U+3 THEN RETURN
7101 PRINT AT 15.31 FLASH 1. 55
15.31 INK 7,US15.31
7102 IF INKEY$="" THEN GO TO 55
7140 NEXT U GO TO 5555
7200 RETURN
0200 GO TO 7000
5555 S
0500 PRINT AT 5.5, BRIGHT 1, INK
1,
"AT 1.1500001.55, POWER 5,"
5510 PRINT AT 5.5, INK 5,
"
5520 LET F=3 LET IS=515, PRIN
T AT 31.5,15
5530 LET S=5555 LET F5=5
5540 PRINT AT 5.5, BRIGHT 1, INK
5, SCORE "5.AT 31.15, "PROCS
5555 FS
5556 PRINT 51.AT 5.5, BRIGHT 1,
15
5557 PRINT 51.AT 1.5, "HIGH SCORE
155, "55
5560 GO TO 5
5561 GOTO "PROCS" LINE 1
5562 GOTO 5
5563 DATA 55,55,75,51,55,55,15.5
5564 DATA 55,55,55,55,55,55,55
5565 DATA 55,55,55,55,55,55,55
5566 DATA 55,55,55,55,175,255,5.5
5567 DATA 155,155,155,157,157,157,155
5568 DATA 155,155,155,155,155,155,155
5569 DATA 44.55,175,15,175,151.1
15,15,15
5570 FOR A=145 TO 155 FOR B=5 TO 7
GOTO 5555
NEXT B NEXT A

```



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Play Dallas on your 64

Although I don't often review games here, occasionally there's one that catches my eye.

Now I'm not personally interested in Dallas — the TV series, not the city — but, knowing the merits for its programers, I thought you might be.

From Datacube comes an offering called Dallas Quest, which uses characters from the show, third thing first, high resolution graphics, strategy and logic. It begins with the player inside the Texas simulation, Southfork.

Inside the game leads you to the South American jungle in your hope to get close to and, um, uh, I.B. Ewee. You take the role of a detective whose job it is to find a witness and bring the business of a rich oil field back successful challenges in the many towns leads you are dependent in finding the map.

Perhaps it is controlled in the plot department, but what can you expect? Look, at the show on which the game is modeled.

Anyway, I don't want to present too many of my personal feelings. The game costs \$19.95 and is available from Datacube Inc., 8000 Wilshire Avenue, Chatsworth, California 91311 (818) 708-2267.



Some interesting new software packages for the Commodore 64 have just been announced. Human Engneered Software (HES) has entered a marketing agreement with Microsoft and will be marketing Mathplan, which is the excellent second-generation financial spreadsheet program originally developed for the IBM PC. The package is planned to be sold for under \$50, recent rates less than what the IBM version sells for, yet will retain most of the same capabilities. This program alone would justify the purchase of a 64. It should be available to you through any ACSI dealer, or by contacting HES directly at Human Engneered Software, 630 North 9th Drive, Provo, California 94661 (916) 468-4911.

A company called Intel Systems has introduced a graphics package that is coupled with a light pen for the 64. Called Planview, it allows its users to do pen-on-paper type of operations using the full speed and high resolution graphics capabilities of the machine. All computer programs can be viewed on disc and edited or recalled when convenient. They can also be printed or jet-dumped out to a compatible printer. The resolution of the package is excellent and reasonably priced. You can contact Intel Systems at 7900 Victoria Street, San Diego, California 92121 (619) 594-8772.

There is an excellent kit available for the 64 which costs a list price of \$19.95. The device is made by Database Corporation, which intends to market bar-code software and also plans to publish a magazine, called Database, expected to include bar-code programs. You can contact Database Corp. at 10007 Chastain Circle, Eden Prairie MN 5544 (612) 944-1760.



Commodore has initiated donations, grants and an information program for all targeted for schools and various non-profit organizations of education. One of its programs, called Commodore Awareness in Education (CWE), is a CD-ROM, is designed to show schools with various software, and developing the use of computers in education. The kit also includes a variety of educational software. It is worth noting Commodore computer. Each center shows information, software, and services with the commitment their school serves as well as being linked with other such centers via modem.

That's it for this week. See you here again in seven days.

Red Ives
Fairfield, California.

Software: tell us more

In contrast with the superb illustrations on the front of software packages the instructions lurking beneath their glossy covers are usually very disappointing.

The obvious limitation for software producers is space. The small amount of history material that can be crammed into the tiny manual that for completed programs which need more than the legend "Touch On and Load" we have to contend with microscopic writing printed on half-a-dozen sheets which unfold like a giant map of London.

This does not prevent engineers to actually sit down and read the instructions before commencing to blow steam out of their electronic appliances. At the best of times it is difficult to take more than a passing glance at the instructions, particularly when you obtain a brand new cassette disc when they look sophisticated and are written in such a terse manner, that it is difficult to take any interest in them at all.

For the instructions can be the source of a great deal of information that can either add to your enjoyment of a game or help you understand the intricacies of programs which have more serious applications.

As an alternative to the instructions we now get which tend as if they have been delivered by gnomes, wouldn't it be better for more cassettes to be issued with an instructional booklet? This could be in a magazine format, and could contain diagrams, photographs and other illustrative material which could illustrate the darker aspects of the program. This and additional material in the form, such as tips on how to obtain the best scores, or useful trivia material, or a list of the record scores, etc., could easily form up the purely practical objective of telling you how to load the tape and which keys to press.

In this way the instructions would actually encourage you to play the tape and learn to use it to its full advantage in a far better way than trial and error.

Surely it is within the capacity of software houses to produce and distribute this material which would greatly enhance both the presentation and utilization of their products?

Another advantage of such instruction booklets would be to help potential buyers assess the value in detail before parting with cash. This would be advantageous to people who have to buy software from shops which have very limited facilities for demonstration and, more than likely, masses of people fighting for attention.

If companies are worried about the extra cost of such booklets then they could use the room available to advertise their other products — they would be certain that their message is being delivered to the right people.

An additional feature could be biographies and details of the program designer and/or details about how the developer set up the ideas which are included in the program and information about the software house itself.

The question software companies might ask themselves is "Are more computer users content with the meagre size of paper that ships to be instructions which are supplied with cassette tape, or would they prefer detailed and interesting instructional booklets?"

Glynis Wilson
Milton Keynes, South Bucks, Bucks

★ This space is for you to sound off about the micro scene, in general. Comments, contributions, letters or just to share your opinions or experiences. Contributions from individuals over a 1000 words short to Paul Egey, Editor, Home Computing Weekly, No.1 Golden Square, London W1R 3AP.

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Move up and down and the left and right. If two wires touch the circuit is complete and the Zerk comes on to disengage you. You can never run out of the power.

You may, if in serious danger of degeneration, pour the "shades" key. This cleans the entire screen of wax — but it can only be used three times.

Shout at the wren closest to you. How only does the cawer that it doesn't touch the growing wire, but showing every a slow range against your I see in every show.

If you see a slice has missed you, don't wait until it hits the wall before firing another — press any key while the laser is in the air and it will then cancel out. You cannot enter while the laser is active.

After the election, lay on the law
 instead, to show us there is a
 way off our worst business news.

Don't miss any long between stops. It's just moderately difficult to debate the 2nd. However, if you find it too difficult decrease the number of stops needed to win, 150, to the 100. On the other hand, if you find it too easy increase the

[illegible]

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from The
Zork?**

If you fail to stop the wires touching you'll have to face The Zork — and he's really mean. Stephen Bell wrote this zany game for the Commodore 64.

[illegible]

A up mouse left
B down paddle right
left arrow chicken key

If you lose, your stock and your percentage equity is destroyed. Since in time, improved times the number of successful share.

- We have inserted `RTIME` as a parameter in the control character as a guide to typing in the program. These `RTIME` should not be erased.

Figure 1

[illegible][illegible]

CONFIDENTIAL

[illegible]



COMMODORE 64 PROGRAM

[illegible][illegible]

It was the best then...

Chess players with a 48K Sparc team will find this program ideal. It shows you about 10 minutes

I have seen other chess games for computers, but as far as I am concerned, this is the best so far, and should give hours of pleasure to the chess buff. R.B.

max output	100%
playability	100%
graphics	75%
value for money	100%



For more information on the 2012-2013 season, visit www.2012-2013season.com.
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... and now it's even better, with these new features:

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Archibuteus leaping relation
 on ground: Archibuteus y-jump regains
 track charge? (1) jumps into air
 jumps into air (2) jumps into air

Abstract

MIKRO-GEN

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112

weedkiller

Your job is to destroy the weeds by moving over them. But don't run over a flower or the trail of poison you leave behind or you will lose one of your three lives.

With every move another flower appears and you'll have to be careful that they do not block your path before you run out of time, or at the beginning of the game.

If you clear all the weeds you move onto the next stage where there are more weeds, less time and more flowers to avoid.

Use the arrow keys to move your mine.

Destroy the weeds... and try some sums

A game and a test for youngsters written for the unexpanded TI-994A by Cara and Paul Leathley

More 8 words

80-90 clear screen, display time
90-99 repeat stage level
100-170 define characters, colours
180-200 write stage
200-210 set variables
220-410 position weeds, flowers and mine
420-430 check time not exceeded
440-450 check keypresses, print new positions, draw trail
450-460 print new flower after each move
460 check time does not leave stage
480-500 check for hit on flower, trail, weed
500-550 all weeds destroyed
550-580 check one life, make stage
590-6000 repeat: more weeds, flowers for next stage
6100-6150 draw first screen
6160-6200 load stage lives, make another game?

```
10 CALL CLEAR
20 PRINT TAB(9); "#####"
30 PRINT TAB(9); "W E E D K I L L E R"
40 PRINT TAB(9); "#####"
50 PRINT
60 FOR S=1 TO 750
70 NEXT S
80 CALL CLEAR
90 INPUT "TIME LIMIT ?":LIM
100 LIV=3
110 CALL CLEAR
120 CALL CHAR(96;"16187C54187C5418")
130 CALL CHAR(128;"183CFF183C246666")
140 CALL CHAR(145;"183C7E3C1D49281C")
150 CALL COLOR(9,4,16)
160 CALL COLOR(10,9,16)
170 CALL COLOR(15,14,16)
180 CALL SCREEN(16)
190 N=60
200 M=25
210 H=0
220 T=0
230 FOR I=1 TO H
240 RANDOMIZE
250 A=INT(RND*22)+2
260 B=INT(RND*30)+2
270 IF (A=22)X(B=30)THEN 240
280 CALL MCHAR(A,B,9,9)
290 NEXT I
300 FOR J=1 TO H
310 RANDOMIZE
320 C=INT(RND*22)+2
330 D=INT(RND*30)+2
340 IF (C=22)X(D=30)THEN 310
350 CALL MCHAR(C,D,9,9)
360 IF S=60 THEN 310
370 CALL MCHAR(C,D,145)
380 NEXT J
390 F=22
400 G=30
410 T=T+1
```

```
420 CALL MCHAR(F,G,128)
430 IF T=LIM THEN 1000
440 CALL KEY(3,K,S)
450 IF S=0 THEN 410
460 IF K<60 THEN 540
470 G=G+1
480 GOSUB 780
490 IF K<2 THEN 500 ELSE 520
500 G=2
510 GOTO 410
520 CALL MCHAR(F,G+1,46)
530 GOTO 410
540 IF K<60 THEN 620
550 G=G+1
560 GOSUB 780
570 IF K<31 THEN 580 ELSE 600
580 G=31
590 GOTO 410
600 CALL MCHAR(F,G-1,46)
610 GOTO 410
620 IF K<60 THEN 780
630 F=F+1
640 GOSUB 780
650 IF F<2 THEN 660 ELSE 680
660 F=2
670 GOTO 410
```



Eric Adds Up

Designed to test addition and subtraction skills for children of pre-school age and above, the range of numbers in this program may be changed by altering the values of A and B in lines 430 and 440.

First the child's name is entered and then the choice is for addition or subtraction.

The sum is repeated 10 times and a score out of 10 is displayed.

```

690 CALL HCHAR(F+1,G,46)
695 GOTO 410
700 IF K<>00 THEN 410
710 F=F+1
720 GOSUB 760
730 IF F>23 THEN 740 ELSE 760
740 F=23
750 GOTO 410
760 CALL HCHAR(F+1,G,46)
770 GOTO 410
780 RANDOMIZE
790 Y=INT(RND*22)+2
800 Z=INT(RND*30)+2
810 CALL GCHAR(Y,Z,W)
820 IF W=96 THEN 760
830 CALL HCHAR(Y,Z,145)
840 IF (G<2)>(G>21)>(F<2)>(F>23) THEN 850 ELSE 860
850 RETURN
860 CALL GCHAR(F,G,K)
870 IF (K=145)>(K=46) THEN 920
880 IF K=96 THEN 890 ELSE 910
890 W=W+1
900 IF W=H THEN 970
910 RETURN
920 LIV=LIV+1
930 CALL HCHAR(F,G,120)
940 CALL SOUND(-750,110,0,111,0,112,0)
950 IF LIV=0 THEN 1000
960 RETURN
970 CALL CLEAR
980 H=H+5
990 W=H+5
1000 LIV=LIV-(LIV/10)
1010 GOTO 210
1020 CALL CLEAR
1030 CALL SOUND(-1000,110,0,111,0,112,0)
1040 M="T I M E U P I"
1050 FOR J=1 TO LEN(M)
1060 CALL HCHAR(11,1+5,ASC(SEG$(M,1,1)))
1070 NEXT J
1080 GOTO 1140
1090 CALL CLEAR
1100 M="YOU LOST YOUR 3 LIVES"
1110 FOR J=1 TO LEN(M)
1120 CALL HCHAR(11,1+5,ASC(SEG$(M,1,1)))
1130 NEXT J
1140 PRINT "ANOTHER GAME? PRESS 'Y'"
1150 CALL KEY$(3,R,S)
1160 IF S=0 THEN 1150
1170 IF K=99 THEN 60 ELSE 1190
1180 END

```

How it works

70-750 assigns light field colors to characters on 2.12
800 GOTO instruction subroutines
830-870 defines characters
880-910 clear screen, print line
920-940 assign random values to A and B
950-955 checks for addition/subtraction, GOTO appropriate line
960-965 print addition sum
965-970 checks for correct/incorrect answer
980-1000 correct answer routine
1000-1005 incorrect answer routine
1010-1020 PRINT 4.7 subroutines
1030-1070 input name
1080-1090 clear screen, initialize
1100-1130 choose addition, subtraction
1130-1190 subtractive sum subtraction
1200-1250 end of 10 questions subroutines, option for new test

What to examine

TI-BASIC is fairly standard but has some unique graphics commands, most of which are detailed below. The screen is made up of 32 columns and 24 rows.

CALL CLEAR (row screen) Replace with CLS on similar machines.

CALL CHARS (col,row) Set the ASCII character with a column/row pair using forward from an 8 x 8 grid.

CALL HCHAR (R,C,CHAR) places a character at row R and column C on the screen and optionally repeats it horizontally.

CALL VCHAR (row,col) places a character at row R and column C on the screen and optionally repeats it vertically.

CALL GCHAR (R,C,X) repeats the ASCII code in variable X at screen position R and C. Similar to a screen FREQ monitor routine.

CALL KEY (R,C,S) places the code of the key pressed into the variable K. Similar to GET on other computers.



TI-994A PROGRAMS

```

10 REM *****
20 REM * ERIC ROSS UP *
30 REM *****
40 REM
50 REM BY PAUL LETHLEY
60 CALL SCREEN(1)
70 FOR C=0 TO 12
80 CALL COLOR(C,0,0)
90 NEXT C
100 GOSUB 300
110 CALL CHR$(27,"10101010101010")
120 CALL CHR$(28,"00000000")
130 CALL CHR$(29,"0000000000000000")
140 CALL CHR$(128,"1010000000000000")
150 CALL CHR$(129,"000000000000")
160 CALL CHR$(130,"0100000000")
170 CALL CHR$(131,"0000000000")
180 FOR J=1 TO 10
190 CALL CLEAR
200 PRINT "*****"
210 PRINT "*****"
220 PRINT "*****"
230 PRINT "  *  *  "
240 PRINT "  *  *  "
250 PRINT "  *  *  "
260 PRINT "  *  *  "
270 PRINT "  *  *  "
280 PRINT "  *  *  "
290 PRINT "  *  *  "
300 PRINT "  *  *  "
310 PRINT "  *  *  "
320 PRINT "  *  *  "
330 PRINT "  *  *  "
340 PRINT "  *  *  "
350 PRINT "  *  *  "
360 PRINT "  *  *  "
370 PRINT "  *  *  "
380 PRINT "  *  *  "
390 PRINT "  *  *  "
400 PRINT "  *  *  "
410 PRINT "  *  *  "
420 REMONLINE
430 R=INT(RND(1))
440 R=INT(RND(1))
450 IF (R=2) THEN GOTO 420
460 IF R=1 THEN R=0 ELSE 430
470 GOTO 4
480 GOTO 510
490 GOTO 0
500 GOTO 1000
510 C=19
520 R=0
530 REM"STRALE 10" + "STRALE 00" =
540 GOSUB 310
550 INPUT T
560 IF T=0 THEN GOTO 500 ELSE 740
570 NEXT J
580 GOTO 1400
590 CALL HCHAR(10,0,0)
600 CALL HCHAR(10,1,1)
610 CALL HCHAR(0,7,0)
620 CALL HCHAR(4,7,1)
630 CALL HCHAR(4,10,1)
640 CALL SOUND(100,500,1,0.000,1,740,1)
650 CALL SOUND(1000,500,1,0.000,1,740,1)
660 C=14
670 R=10
680 REM"HELL DONE "
690 GOSUB 310

```

```

700 C=C+1
710 FOR D=1 TO 700
720 NEXT D
730 GOTO 570
740 CALL HCHAR(11,0,1)
750 CALL HCHAR(11,1,1)
760 CALL HCHAR(0,7,1)
770 CALL HCHAR(0,10,1)
780 CALL HCHAR(0,10,1)
790 CALL SOUND(1000,110,0,111,0,112,0)
800 C=14
810 R=10
820 REM"HARD LUCK "
830 GOSUB 310
840 C=14
850 R=10
860 REM"THE ANSWER IS "
870 GOSUB 310
880 FOR D=1 TO 700
890 NEXT D
900 GOTO 570
910 FOR E=1 TO LEN(R)
920 CALL HCHAR(R,C+1,0)
930 CALL HCHAR(R,C+1,ASC(SCREEN(R,1)))
940 NEXT E
950 RETURN
960 CALL CLEAR
970 INPUT "WHAT IS YOUR NAME?" N$
980 GOSUB 310
990 CALL CLEAR
1000 PRINT "HI " N$
1010 PRINT "*****"
1020 PRINT
1030 PRINT "SOON YOU WILL MEET ERIC."
1040 PRINT
1050 PRINT "ERIC IS NOT TOO GOOD AT"
1060 PRINT
1070 PRINT "SURE SO YOU WILL HAVE TO"
1080 PRINT
1090 PRINT "HELP HIM, IF YOU GET THE"
1100 PRINT
1110 PRINT "GUN RIGHT HE WILL SMILE"
1120 PRINT
1130 PRINT "BUT IF YOU ARE WRONG HE"
1140 PRINT
1150 PRINT "WILL START TO CRY."
1160 PRINT
1170 PRINT "PRESS ANY KEY TO START"
1180 CALL KEY$(R,S)

```



TI-994A PROGRAMS

```

1100 IF S=0 THEN 1100
1200 RETURN
1310 PRINT
1320 PRINT "WHAT DO YOU WANT TO DO?"
1330 PRINT
1340 PRINT "PRESS 1"
1350 PRINT
1360 PRINT "1. TO DO ADDS"
1370 PRINT "2. TO DO TRICE MAYS"
1380 CALL KEY$(A$,B)
1390 IF A=0 THEN 1310
1400 IF A=50 THEN 1300 ELSE 1200
1410 P=1
1420 RETURN
1500 P=2
1510 RETURN
1520 C=10
1530 R=0
1540 TRN$=STR$(A$) + "153TRN$234" + "1"
1550 GOSUB 510
1560 GOTO 500
1570 CALL CLEAR
1580 PRINT "YOU'VE DONE YOUR SUBSTIONS"
1590 PRINT
1600 PRINT "AND SCORED A 90% OUT OF 10"
1610 PRINT
1620 PRINT "PRESS ANY KEY TO START AGAIN"
1630 CALL KEY$(A$,B)
1640 IF A=0 THEN 1400 ELSE 1400
1650 GOTO 10
1660 GOTO 10

```



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Manuscript accepted for publication 11 May 2006

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TI-994A SOFTWARE

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48K SPECTRUM

An educational game to read the best game you ever played

FEATURING
Addictive game format
4 levels of game play + 4 levels of spelling
Create your own word lists or use internal list
Support 3-dimensional animated graphics
Fast and smooth machine-code action
Top screen display
Power mode

General enjoyment for all ages, the game could be a best seller if marketed as an ordinary games program. Try it and see.

From **CLUB** to **BARBERS** from

PANEL 4903

535 Commercial Blvd., Wrentham, Dorset.

In HOW 51 I presented a set of machine code input routines for the ZX80. I have now written them completely for the Spectrum making the most of the machine's features.

The expert I required needed to be virtually self-checking and self-proof, they also needed to perform the following tasks:

- Wait for any valid key to be pressed
- Check for any valid key pressed within a time limit
- Give a sequence of valid characters from the keyboard

A bonus routine became inevitable from this need to allow a "press any key" input.

The secret of validating the key pressed lies in telling the computer which keys are acceptable before calling the routines. This machine then checks the key pressed against each of the specified keys and returns invalid inputs.

So that the programmer can allow the valid keys within the program you allow the computer to find them easily, the array variable C% should be DIM'd correctly at the first line of the program.

The length of this array needs to be calculated by counting the maximum number of valid keys at any time. Plus two.

So, to allow for all the alphanumeric (26) + 25 letters = 51.

The two more places are for special markers to let the machine know that a key has reached the end of the valid key list, and as the string input routine is a signal return to BASIC (ENTER code).

The input program has been written to operate on either 16 or 48K machines by lowering RAMMap 20 bytes below the UDD area. Line 13 does this then assigns the variable a and b to that address and prints it for your information.

Lines 20 to 30 read the machine code routines from the DATA statements (from 1000-1099) and POKE them into memory, displaying the address of each one.

Line 31 informs you where the string of characters input will be stored.

Lines 40 to 80 make the adjustments necessary to allow for 16 or 48K. They also make it possible to relocate the code by specifying the address in line 30 and string variable a and b accordingly.

Once you have entered the code I suggest you SAVE it. If you have made only one error in the numbers then you could lose the lot.

Idiot-proof INPUTS for your Spectrum

Follow Ray Elder's advice on self-checking INPUT for your own programs and even the most ham-fisted players won't go wrong

Run the program and just down the information displayed (or COPY on a printer). The 48K address set shown in figure 1. We are now ready to test it.

Using the program

First, type NEW — the valid code is only above RAMMap — and enter the line 10 DIM C%(51).

I have used a length of 12 for demonstration purposes only. Calculate the value you need in replacement order.

In all the following tests I have used the 48K addresses. Substitute the 16K values as required. Should any one fail to load the program and check it carefully.

Press any key routine

Enter LET b = USR 45148.

The computer should inform them doing nothing until you press a key when the 0 OK report should appear.

Press a single valid key

First set the valid keys by adding a hex:

20 LET c = "a-z"

The number of letters must not exceed the length of C% and must include the "" as the end as this is the computer's end of valid keys to check member.

Also the upper or lower case mode must correspond — it's no good checking for "a-z" if the machine is in CAPS (LOCK).

Now call the routine by line: 30 LET b = USR 45149

40 PRINT b

If you now run the program the Spectrum should wait until you press one of the specified keys, a, z or p. All other keys including BREAK should be unresponsive.

A very useful feature of the routine is in relation to the key's position in c%, ie if a returned for b, 1 for p.

This means that it is very versatile to use in a program as you can use line like:

30 GO TO USR 45149/50

40 IF USR 45149 = 3 THEN

(Do not enter these lines for testing.)

This feature also applies to the forced input routine, except the value 0 is returned if no key is pressed in time.

Typed input

Use exactly the same as the previous routine only change line 30 to LET b = USR 45124.

Instead of waiting forever for a correct key to be pressed, the routine returns after a brief

pause. This pause can be lengthened or shortened by POKEing a value to the start address, plus 64, with a number from 1 (no pause) to 255 (long pause, i.e. 48K, POKE 45148 + 64).

String input

It must contain the valid keys plus a space and the "" as a space at the start is needed if you want the routine to wait for a space in the input.

The end space is replaced with the code for ENTER so that the computer knows when to return to BASIC. This is done by inserting that character in the string, replacing the last space — try a character — and including the code LET c% = CHR% 13.

For example: 20 LET c% = "a-zspace"
LET c%(45) = CHR% 13

To call this routine it is necessary to use the following code as a sub-routine or line, because we now have to unpack the characters stored in the string address 250 a string variable.

I used c%, but any variable will do.

A very useful feature of this code is that the input can be directed to any part of the screen.

30 LET a = "" PRINT AT 5,0

40 FOR i = 1 TO USR 45149-1

50 LET a% = c% + CHR%

60 PEEK 16116 = a%

80 NEXT i

Now that you have your code, checked it and want to use it, I suggest that you save the program in memory any and save and enter:

1 REM any key = 45148

2 REM waitkey = 45149

3 REM waitkey = 45124

4 REM any key = 45124

5 REM char = 45145

10 DIM c%(45) REM c = max

no. of chars + 2

9999 STOP

9990 NAME "program"

1000 SAVE "code"

CODE 45148,200

9995 CLEAR USR "1" = 30

LOAD "" CODE RUN

To save this short BASIC program and your machine code, type GOTO 9990. The program and code will save in two blocks and on reloading will set up RAMMap, load in the machine code and auto run.

Of course the program will always stop with the undefined variable report in line 10 until you replace it with the value you require.

Now all you have to do is write your own programs incorporating these routines.

Listing for Spectrum INPUT routines

```
10 CLEAR USR "a"-255: LET a=US
R "a"-255: LET b=a: PRINT "Code
starts at "a
20 RESTORE 1: FOR i=1 TO 21: RE
AD a: POKE a,x: LET a=a+1: NEXT
i: PRINT "Wait for key routine
at "a
30 FOR i=1 TO 30: READ x: POKE
a,x: LET a=a+1: NEXT i: PRINT "
Typed INKEY routine at "a
```

SPECTRUM PROGRAMMING

```

42 FOR i=1 TO 52: READ x: POKE
a,x: LET a=a+1: NEXT i: PRINT "
String Input routine at %a
52 FOR i=1 TO 39: READ x: POKE
a,x: LET a=a+1: NEXT i: PRINT "
""To save code type :""SAVE ""
inputs"" CODE %b",288"
55 PRINT ""String Input char
acters start""at address %b+14
n

```

```

40 LET a2b=INT (b/256): LET a8
j=b-256+a2b: LET a1b=INT ((b-a)/
256): LET a1j=(b-a)-256+a1b: LET
a2b=INT ((b-a1j)/256): LET a2j=
a1j-256+a2b

```

```

78 POKE b+22,a11: POKE b+23,a1
h1: POKE b+27,a21: POKE b+28,a2h:
POKE b+32,a31: POKE b+33,a3h

```

```

00: POKE b+27,a11: POKE b+58,a1
h: POKE b+62,a21: POKE b+63,a2h:
POKE b+71,a811: POKE b+72,a8h

```

```

    IF POKE b+114, (b+140)/256:INT
    ((b+140)/256): POKE b+115,INT ((
    b+140)/256): POKE b+122, (b+21)-2
    54:INT ((b+21)/256): POKE b+123,
    INT ((b+21)/256)

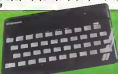
```

```
1000 DATA 205,142,2,14,0,32,249,
205,38,3,48,244,21,75,205,51,3,2
51,43,0,201
```

```
1010 DATA 33,8,8,54,249,33,8,8,5
4,244,285,8,8,1,8,8,42,75,92,9,1
4,1,178,288,87,82,42,178,122,48,
238,35,3,24,243
```

```
10220 DATA 33,8,8,34,11,33,8,8,34
,4,17,8,16,213,208,8,8,1,6,8,42,
75,82,9,14,1,178,48,13,87,82,42,
178,122,48,4,35,3,24,242,14,8,28
9,128,177,192,27,122,179,32,216,
281
```

```
12345 DATA 43,2,225,1,22,33,8,8,1
1,8,229,197,225,2,8,193,225,119,
38,254,13,228,3,218,229,197,225,
142,2,14,8,225,38,3,56,246,24,2
46
```



SPECTRUM SAVERS

Fluorine 66 is a part of the Spectrogram software.

Close To The Surface: Memphis and the Rock

There were no significant changes in haematology or biochemistry.

September 1999

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THE OMEGA RUN

The Last Flight to Armageddon

CU

Abstract

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523</
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Tuesday September

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THEORY AND BACKGROUND

1. *Journal of Management Education*, 2000, 24(1), 1-10.

What will they learn from these?

Our regular page of educational software reviews. Our experts sum up their findings

Educational Compendium Spectrum ES

Orion, 28 September 88, Los Angeles 1981001

Although well documented, there is so much to absorb that it is almost as if this educational program, along with its colorful shapes which are very young might look a bit confused

All follow the same format, but the slightly different shape.

The screen graphics are quite allowed you to point the cursor around the screen, having a small. Dragonfly appears you start in a large, brightly colored and floating around calling on the and. The last two are filled.

On the other side, Dragonfly has a very simple design to fit the right age — the dragonfly or dragonfly, which is a dragonfly — and the dragonfly is a dragonfly — and the dragonfly is a dragonfly.

Dragon Digits Dragon 32 ES.95

Dragon, 18000 Home, St John St, Ashbourne, Derby

Four games with a mathematical flavor are by a multi-processor. A variety of mathematical problems are by a multi-processor. A variety of mathematical problems are by a multi-processor. A variety of mathematical problems are by a multi-processor.

The first, Addition, is a simple addition and subtraction game. The second, Multiplication, is a multiplication game. The third, Division, is a division game. The fourth, Mixed, is a mixed game.

For mental arithmetic. Several is, to be more specific, a game where you must answer a collection of digits into three separate separate order. Several is, to be more specific, a game where you must answer a collection of digits into three separate separate order.

The games are well-linked with good interaction and have educational value, but there are few graphics and they are rather unappealing. For the 10-year-old or younger children, this would be a waste.

educational value 100%
graphics 100%
value for money 100%



Map References 32K BBC ES.80

LVE, Elmwood House, Bridgton, Hampshire, Hants

Four programs designed to teach the use of grid references to young people of age 10-14. The first, Introduction, shows how to use a grid reference. The second, Grid References, shows how to use a grid reference. The third, Grid References, shows how to use a grid reference. The fourth, Grid References, shows how to use a grid reference.

here you are trying to find your way to a certain place. The first, Introduction, shows how to use a grid reference. The second, Grid References, shows how to use a grid reference. The third, Grid References, shows how to use a grid reference. The fourth, Grid References, shows how to use a grid reference.

educational value 100%
graphics 100%
value for money 100%



Goldlocks 48K Spectrum ES.95

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